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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/698,700	10/31/2003	Suresh Katukam	CISCP849 1908  EXAMINER	
54406 AKA CHAN L	7590 10/30/2007			
900 LAFAYET			FAROUL, FARAH	
SUITE 710 SANTA CLARA, CA 95050			ART UNIT	PAPER NUMBER
			2616	
			MAIL DATE	DELIVERY MODE
			10/30/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/698,700	KATUKAM, SURESH			
Office Action Summary	Examiner	Art Unit			
	Farah Faroul	2616			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,					
WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION  (6(a). In no event, however, may a reply be tirg  (ii) apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D. (35 U.S.C. § 133).			
Status					
1) Responsive to communication(s) filed on 23 Au	ugust 2007.				
,—	· /				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4) Claim(s) <u>1-31</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6) Claim(s) <u>1-31</u> is/are rejected.					
7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	r election requirement				
6) Claim(s) are subject to restriction and/or	election requirement.				
Application Papers					
9)☐ The specification is objected to by the Examine					
10)⊠ The drawing(s) filed on <u>31 October 2003</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex	-				
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
3. Copies of the certified copies of the priority documents have been received in this National Stage					
application from the International Bureau (PCT Rule 17.2(a)).  * See the attached detailed Office action for a list of the certified copies not received.					
See the attached detailed Office action for a list of the certified copies hot received.					
	•				
Attachment(s)  1) Notice of References Cited (PTO-892)  4) Interview Summary (PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail D	ate			
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	5)  Notice of Informal F 6)  Other:	atent Application			

1. The following Office Action is based on the amendment filed on August 23, 2007, having claims 1-31 and figures 1-9.

### Claim Rejections - 35 USC § 112

2. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-31 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

It is strongly suggested that applicant(s) review the language of claims 1-31 to render the claims definite and proper. The claim(s) language as presented is redundant and vague.

Claims 1-10 and 24-31 are directed towards "a device" and yet applicant(s) include the limitations "computer code when executed", "software code", "computer code" and "a medium which stores the computer codes" in the claims. These limitations are inconsistent with the "device" or "system" being claimed. These limitations are to be deleted in the claims.

## Claim Rejections - 35 USC § 102

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Doshi et al. (US 2004/0205239 A1).

For claims 1, 11-12, 19, 24 and 28, Doshi discloses a primary circuit path from the first node to the second node, the primary circuit path includes a first protected link selected from the plurality of elements (paragraphs 13, lines 1-10), the primary circuit path is arranged to include at least one protected link in a protectable segment of the primary circuit path (paragraph 62, lines 1-14)

An alternate circuit path from the first node to the second node wherein the alternate circuit path protects at least the protectable segment of the primary circuit path (paragraph 46, lines 1-12 and paragraph 62, lines 1-14)

For claims 2, 4, 20, 25 and 29, Doshi discloses that the protected link is a 1+1 protection link (paragraph 60, lines 1-10)

For claims 3, 13, 22, 27, and 30, Doshi discloses creating the alternate path includes using the routing algorithm (paragraph 274)

For claim 5, Doshi discloses enabling at least one element of the plurality of elements which is required in the alternate circuit path to be substantially specified and creating the alternate path using at least one element of the plurality of elements which is required (paragraphs 212-213)

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For claims 7-8, Doshi discloses the device is associated with a first node and implementing the primary circuit and the alternate circuit path (see Figure 17, element 1402 in Figure 14)

For claims 9, 16 and 23, Doshi discloses the primary path is a lowest cost circuit path between the first node and the second node and the alternate circuit path is a lowest circuit path between the first node and the second node which protects the primary circuit path (see Figure 15 and paragraphs 11 and 13)

For claim 14, Doshi discloses that a first node associated with the start and second nodes associated with the end are included in the alternate path (see Figure 17)

For claim 15, Doshi discloses the primary path being the shortest path between the start node and the destination node (see Figure 17)

For claims 10 and 17, Doshi discloses considering costs associated with a plurality of links associated with the network and a cost associated with the first line-protected link, the cost associated with the first line-protected link being substantially lower than the costs associated with the plurality of links (see Figure 15 and paragraphs 11 and 13)

For claim 31, Doshi discloses a primary circuit path between the first node and the second node which does not include at least one protected link when it is determined that at least one protected link may not be included in the protectable segment of the primary path and creating an alternate circuit path between the first node and the second node and the alternate circuit path protects the primary circuit path (see Figure 13 and paragraph 214).

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#### Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

Claims 18, 21, 26 and 29 are rejected under 35 U.S.C. 103(a) as being unpatentable over Doshi et al. (US 2004/0205239 A1) in view of Frannhagen (US 2002/0181490 A1).

For claims 18, 21, 26 and 29, Frannhagen discloses the overall circuit path is a unidirectional path-switched ring (paragraph 40, lines 1-10 wherein the overall circuit path is unidirectional path-switched ring (UPSR))

Thus, it would have been obvious to someone of ordinary skill in the art to combine the line-protected mechanism of Frannhagen with the communication network of Doshi at the time of the invention. The line-protected path method of Frannhagen is combined with the communication network of Doshi by configuring the protected circuit path as a unidirectional path-switched ring. The motivation to combine the line-protected path method of Frannhagen with the communication network is that the UPSR architecture provides 1+1 protection in the communication network.

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#### Response to Arguments

5. Applicant's arguments with respect to claims 1-31 have been considered but are moot in view of the new ground(s) of rejection.

#### Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Farah Faroul whose telephone number is 571-270-1421. The examiner can normally be reached on Monday - Friday 6:30 AM - 4 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Firmin Backer can be reached on 571-272-6703. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

F.F.

FIRMIN BACKER
SORY PATENT EXAMINER